

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE

STATE: NEW MEXICO

COUNTY: LEA
Field: WILDCAT
Location: 990 FSL AND 768 FWL
Well: GRANDE NO. 1
Company: FASKEN OIL AND RANCH LTD.

Schlumberger

COMPENSATED NEUTRON LITHO-DENSITY GAMMA RAY

990 FSL AND 768 FWL

Elev.: K.B. 3824 F
G.L. 3810 F
D.F. 3823 F

Permanent Datum: GROUND LEVEL

Elev.: 3810 F

Log Measured From: KELLY BUSHING

14.0 F above Perm. Datum

Drilling Measured From: KELLY BUSHING

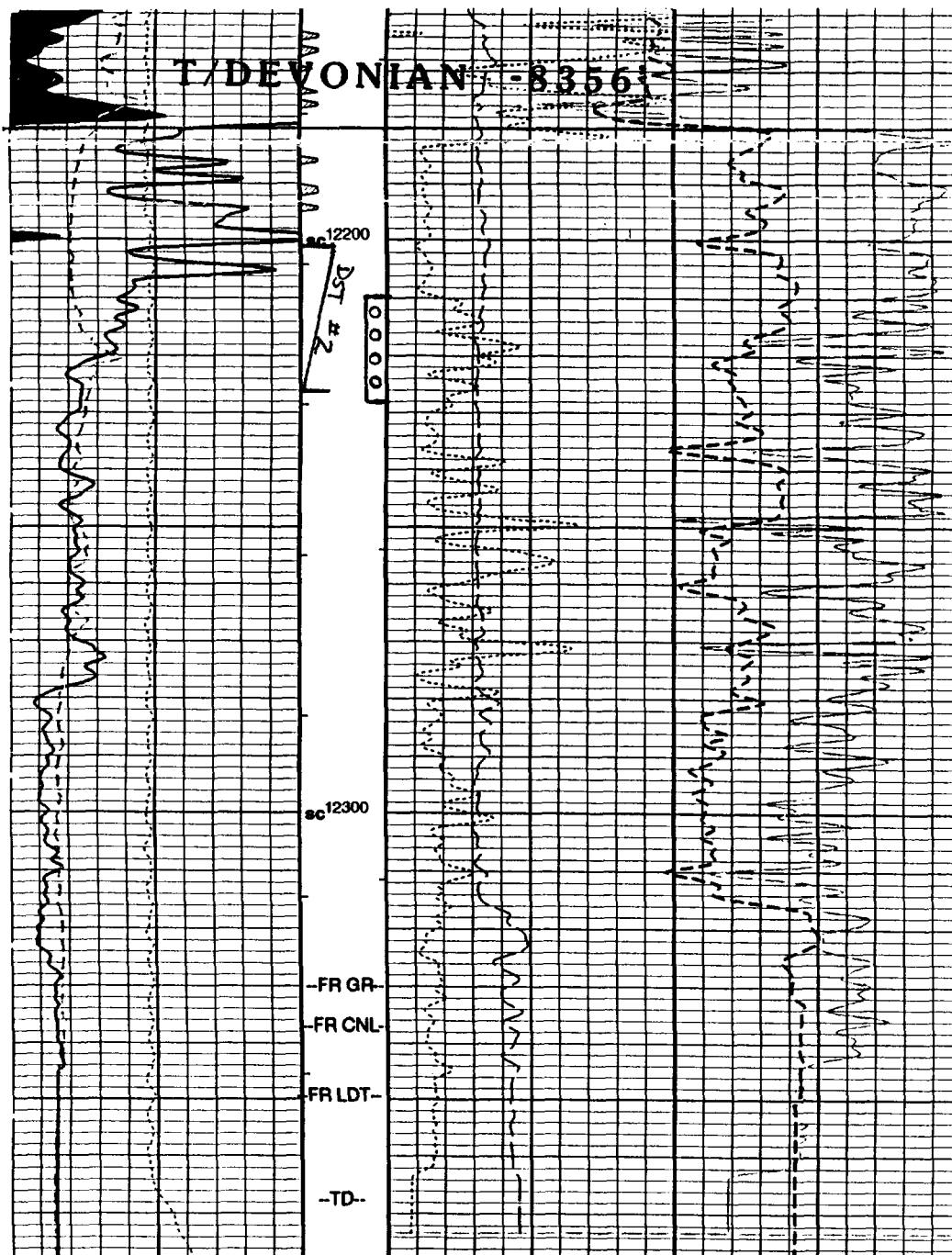
API Serial No.
30-025-33502

SECTION
3

TOWNSHIP
13-S

RANGE
38-E

Logging Date		13-AUG-1996			
Run Number		ONE			
Depth Driller		12380 F			
Schlumberger Depth		12366 F			
Bottom Log Interval		12349 F			
Top Log Interval		200 F			
Casing Driller Size @ Depth		8.625 IN	@	4508 F	@
Casing Schlumberger		4500 F			
Bit Size		7.875 IN			
Type Fluid In Hole		FRESH MUD			
MUD	Density	Viscosity	9.1 LB/G	50 S	
	Fluid Loss	PH	8 C3	9	
	Source Of Sample		PIT		
	RM @ Measured Temperature		3.220 OHMM	@	70 DEGF
RMF @ Measured Temperature		2.760 OHMM	@	70 DEGF	@
RMC @ Measured Temperature		4.280 OHMM	@	70 DEGF	@
Source RMF	RMC	MEAS.			
RM @ MRT	RMF @ MRT	1.431 @ 166	1.226 @ 166	@	@
Maximum Recorded Temperatures		166 DEGF	166	166	
Circulation Stopped		Time	13-AUG-1996	5:15	
Logger On Bottom		Time	13-AUG-1996	12:00	
Unit Number	Location	2033	HOBBS NM		
Recorded By		KEITH DRAKE			
Witnessed By		CARL BROWN			



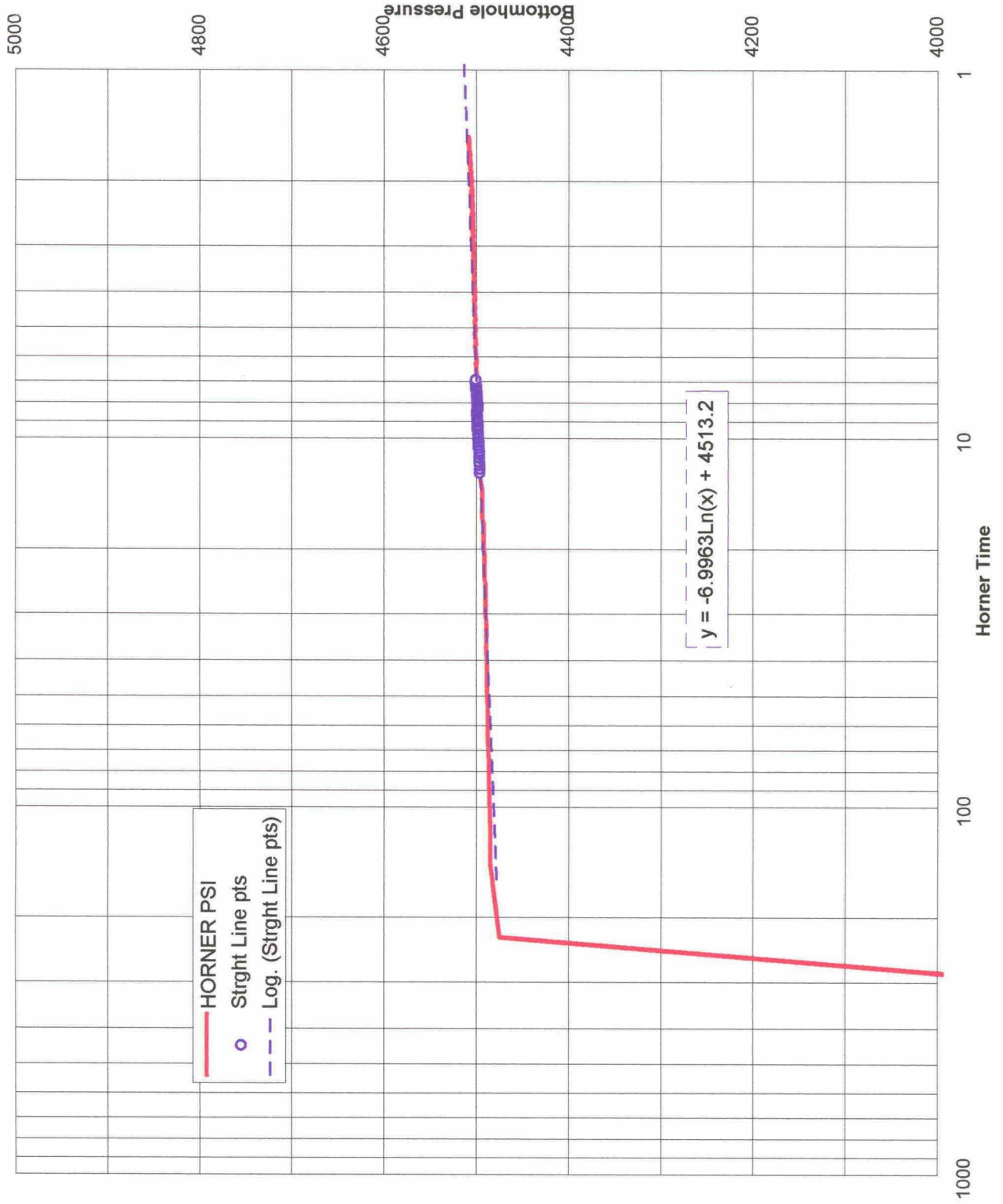
**BEFORE THE
OIL CONSERVATION**
Case No. 11612 Exhibit
Submitted By:
Fasken Oil & Ranch
Hearing Date: September

Compl. 8-26-96

PERF: 12,210-12,228

IPF: 201 BOPD / 30 MCFPD / 0 BWPD

Grande #1
Lea County, NM
DST #2



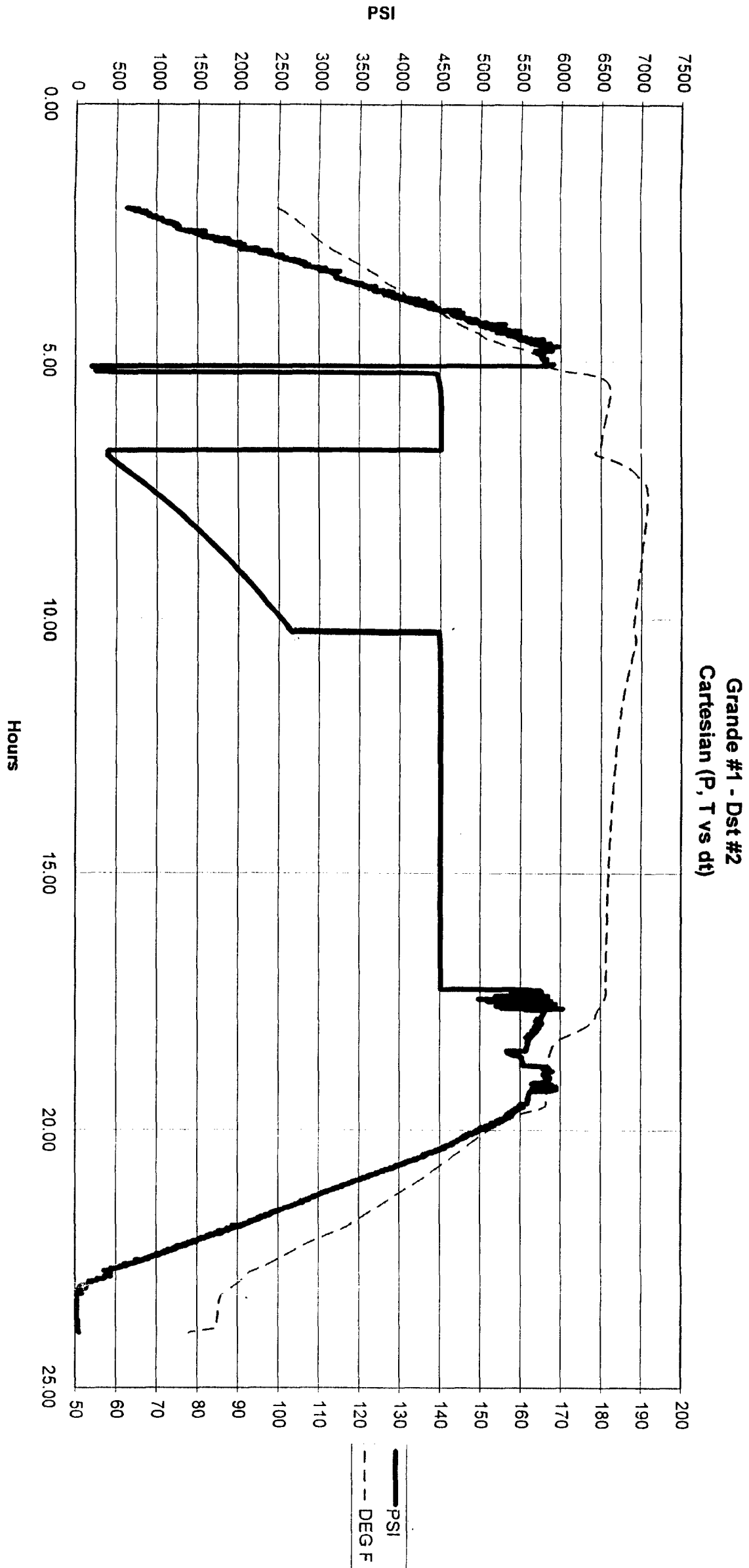
FASKEN OIL AND RANCH, LTD.
GRANDE #1
SEC 3, T13S, R38E
Lea County, New Mexico

Production History

DATE	OIL_BBL	WTR_BBL	FTP_PSI
29-Aug-96	97	0	380
30-Aug-96	134	0	380
31-Aug-96	203	0	380
1-Sep-96	196	0	385
2-Sep-96	193	0	380
3-Sep-96	201	0	385
4-Sep-96	216	0	385
5-Sep-96	202	0	380
6-Sep-96	214	0	380
7-Sep-96	147	0	380
8-Sep-96	177	0	300
9-Sep-96	100	0	220
10-Sep-96	139	0	210
11-Sep-96	134	3	160
12-Sep-96	166	0	110
13-Sep-96	135	9	95
14-Sep-96	130	11	90
15-Sep-96	121	11	90
16-Sep-96	127	11	90
17-Sep-96	109	9	90
18-Sep-96	103	6	90
19-Sep-96	95	3	70
20-Sep-96	86	3	55
21-Sep-96	94	14	60
22-Sep-96	116	19	60
23-Sep-96	95	9	60
24-Sep-96	95	11	50
Total	3825	119	

**BEFORE THE
OIL CONSERVATION DIVISION**
Case No. 11612 Exhibit No. 5
Submitted By:
Fasken Oil & Ranch
Hearing Date: September 26, 1996

CWB
9-17-96
granpro.xls



Horner Analysis
DST #2 - Grande #1
Sec 3, T13S, R38E
Lea County, New Mexico

Interval: 12,201 to 12,226 feet

Flow Rate (Q): 534 bopd

Flow Time (t): 3.6 hours

Bo: 1.17 bbl/stb

Porosity(ϕ): 5%

Visc(μ): 0.6 cp

Total Compressibility (Ct): 12×10^{-6}

Horner slope (m): 16.11 psi/cycle

Extapolated Pressure (P*): 4513 psi

Formation Thickness (h): 16 feet

$$\text{Permeability } K = \frac{162.6 (Q)(Bo)(\mu)}{(m)(h)}$$

$$K = \frac{162.6 (534)(1.17)(.6)}{(16.11)(16)}$$

$$K = 236 \text{ md}$$

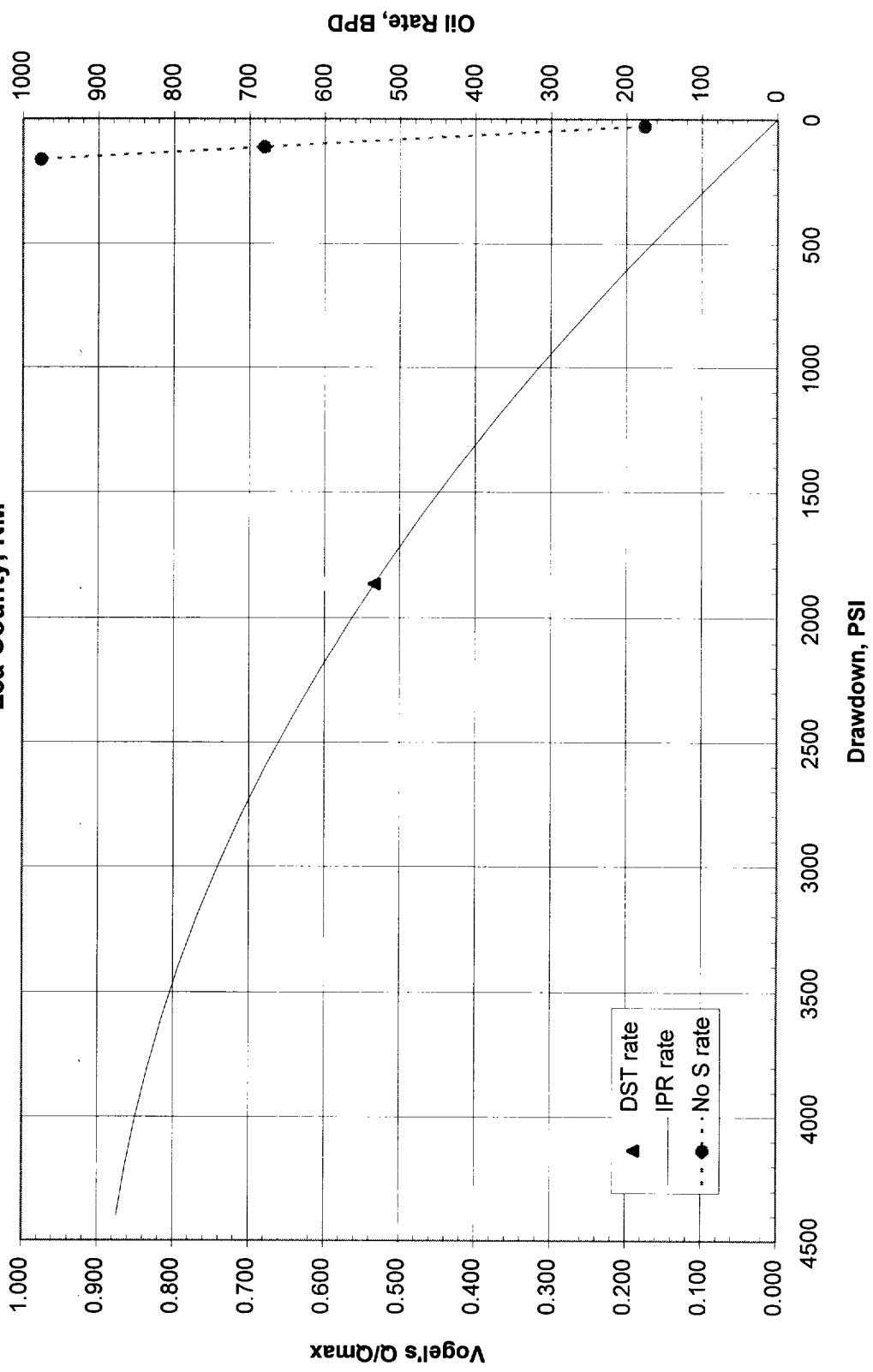
$$\text{Radius of Investigation (ROI):} = 0.029 \sqrt{\frac{K t}{\phi \mu C_t}}$$

$$\text{ROI} = 0.029 \sqrt{\frac{(236)(3.6)}{(0.05)(0.6)(12 \times 10^{-6})}}$$

$$\text{ROI} = 1409 \text{ feet}$$

BEFORE THE
OIL CONSERVATION DIVISION
 Case No. 11612 Exhibit No. 2
 Submitted By:
Fasken Oil & Ranch
 Hearing Date: September 26, 1996

Fasken Oil and Ranch, Ltd.
 Grande #1
 Sec 3, Unit M, T-13-S, R-38-E
 Lea County, NM



FASKEN OIL AND RANCH, LTD.
GRANDE #1
SEC 3, T13S, R38E
LEA COUNTY, NM

VOLUMETRIC ESTIMATED ULTIMATE RECOVERY (EUR)

DATA

Average Porosity (ϕ) =	5 %
Net Pay Thickness (h) =	18 feet
Average Water Saturation (Sw) =	40 %
Recovery Factor (RF) =	35 %
Formation Volume Factor (Bo) =	1.17 BO/STB

Recovery Per Acre (STB/Ac) = $(7758 * \phi * h * (1-S_w) * RF) / B_o$

Recovery Per Acre = 1,250 STB/AC

Estimated Ultimate Recovery (EUR) = Ac * 1250

	<u>40 AC</u>	<u>80 AC</u>
EUR =	50,000	100,000

BEFORE THE
OIL CONSERVATION DIVISION
Case No. 11612 Exhibit No. 10
Submitted By:
Fasken Oil & Ranch
Hearing Date: September 26, 1996

CWB
9-17-96
grabecon.xls

FASKEN OIL AND RANCH, LTD.
GRANDE #1
SEC 3, T13S, R38E
LEA COUNTY, NM

ECONOMIC COMPARISON

40 ACRE SPACING						
YEAR	GROSS OIL BO	REVENUE \$	INVESTMENT \$	EXPENSES \$	YEARLY PROFIT \$	CUMULATIVE PROFIT \$
1996	13,693	\$177,918	\$842,500	\$16,000	(\$680,582)	(\$680,582)
1997	22,406	\$291,133		\$48,000	\$243,133	(\$437,450)
1998	8,579	\$111,473		\$48,000	\$63,473	(\$373,977)
1999	3,285	\$42,682		\$48,000	(\$5,318)	(\$379,295)
2000	1,258	\$16,343		\$48,000	(\$31,657)	(\$410,953)
2001	482	\$6,257		\$48,000	(\$41,743)	(\$452,695)
2002	298	\$3,878		\$48,000	(\$44,122)	(\$496,817)
TOTAL	50,000	\$649,683	\$842,500	\$304,000	(\$496,817)	(\$496,817)

80 ACRE SPACING						
YEAR	GROSS OIL BO	REVENUE \$	INVESTMENT \$	EXPENSES \$	YEARLY PROFIT \$	CUMULATIVE PROFIT \$
1996	14,851	\$192,974	\$842,500	\$16,000	(\$665,526)	(\$665,526)
1997	33,197	\$431,358		\$48,000	\$383,358	(\$282,168)
1998	21,110	\$274,303		\$48,000	\$226,303	(\$55,865)
1999	13,424	\$174,430		\$48,000	\$126,430	\$70,565
2000	8,536	\$110,921		\$48,000	\$62,921	\$133,486
2001	5,428	\$70,535		\$48,000	\$22,535	\$156,021
2002	3,452	\$44,854		\$48,000	(\$3,146)	\$152,875
TOTAL	100,000	\$1,299,375	\$842,500	\$304,000	\$152,875	\$152,875

**BEFORE THE
OIL CONSERVATION DIVISION**
Case No. 11612 Exhibit No. //
Submitted By:
Fasken Oil & Ranch
Hearing Date: September 26, 1996

CWB
9-17-96
granecon.xls

**BEFORE THE
OIL CONSERVATION DIVISION**
Case No. 11612 Exhibit No. 12
Submitted By:
Fasken Oil & Ranch
Hearing Date: September 26, 1996

KELLAHIN AND KELLAHIN

ATTORNEYS AT LAW

EL PATIO BUILDING

117 NORTH GUADALUPE

POST OFFICE BOX 2265

SANTA FE, NEW MEXICO 87504-2265

W. THOMAS KELLAHIN*

*NEW MEXICO BOARD OF LEGAL SPECIALIZATION
RECOGNIZED SPECIALIST IN THE AREA OF
NATURAL RESOURCES-OIL AND GAS LAW

JASON KELLAHIN (RETIRED 1991)

TELEPHONE (505) 982-4285
TELEFAX (505) 982-2047

August 23, 1996

TO:

**ALL INTERESTED PARTIES ENTITLED TO NOTICE
OF THE HEARING OF THE FOLLOWING NEW MEXICO
OIL CONSERVATION DIVISION CASE:**

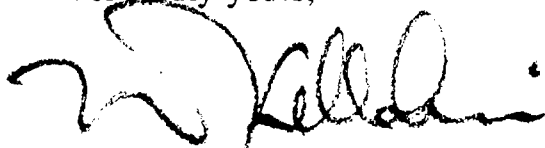
***Re: Application of Fasken Oil and Ranch, Ltd. for creation of
a new oil pool for Devonian formation production
including the adoption of special rules Lea County, New
Mexico***

On behalf of Fasken Oil and Ranch, Ltd, please find enclosed our application for the creation of a new Devonian formation oil pool and the adoption of special rules as set forth in the attached application which has been set for hearing on the New Mexico Oil Conservation Division Examiner's docket now scheduled for September 19, 1996. The hearing will be held at the Division hearing room located at 2040 S. Pacheco, Santa Fe, New Mexico.

As an interest owner who may be affected by this application, we are notifying you of your right to appear at the hearing and participate in this case, including the right to present evidence either in support of or in opposition to the application. Failure to appear at the hearing may preclude you from any involvement in this case at a later date.

Pursuant to the Division's Memorandum 2-90, you are further notified that if you desire to appear in this case, then you are requested to file a Pre-Hearing Statement with the Division not later than 4:00 PM on Friday, September 13, 1996, with a copy delivered to the undersigned.

Very truly yours,

A handwritten signature in dark ink, appearing to read 'W. Thomas Kellahin', written over a horizontal line.

W. Thomas Kellahin

cc: Fasken Oil and Ranch, Ltd.
Attn: Carl Brown

State Director
Bureau of Land Management
P. O. Box 27115
Santa Fe, New Mexico 87502-0115

Bureau of Land Management
620 E. Greene St.
Carlsbad, New Mexico 88220

Patricia J. Cooper, Trustee
for the PJC Revocable Trust
u/t/a dated 12-3-89
1409 South Sunset
Roswell, New Mexico 88201

S. P. Johnson, III and
Barbara Jo Johnson, Co Trustees
of the S. P. Johnson, III Trust
dtd 1/24/1985
P. O. Box 1641
Roswell, New Mexico 88201

Roy G. Barton, Jr. Trustee of the
Roy G. Barton, Sr. and Opal Barton
Revocable Trust u/t/a 1/28/92
P. O. Box 978
Hobbs, New Mexico 88240

Southern Methodist University
Perkins Administration Bldg
6425 Boaz Lane
Dallas, Texas 75275

University of Texas Law School Foundation
2500 Red River
Austin, Texas 78705

Mildred A. Wright, as Trustee
u/t/a #1, dtd 9/9/80
P. O. Box 505
Farmington, New Mexico 87401

Thomas W. Pettit
151 W. Trinity Road
Glen Ellen, California 95442

Twila Gooding, as trustee of the
Luck Wright Royalty Syndicate Trust,
as reestablished u/t/a dtd 12/1/78
P.O.Box 505
Farmington, New Mexico 87401

Betty Lou Fox
C/o Cas Tabor, Esq.
P. O. Box 1718
Carlsbad, New Mexico 88220

Karl Houston Restine
1221 North Roosevelt
Amarillo, Texas 79107

Board of Regents of
University of New Mexico
Scholes Hall 160
Albuquerque, New Mexico 87131-0001

Conquistador Council of the
Boy Scouts of America Trust Fund
P. O. Box 1534
Roswell, New Mexico 88201

Charles H. Hinkle
P. O. Box 149
Monterrey, CA 93940

Cynthia Hinkle, Trustee for herself and
Kristen Hinkle and Jenna Hinkle
Route 3 Box 159
Carmel, CA 93923